

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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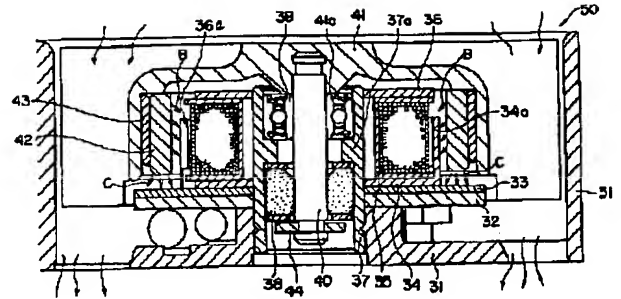
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APPLICANT : COPAL CO LTD;

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TITLE : BRUSHLESS MOTOR



ABSTRACT : PROBLEM TO BE SOLVED: To provide a brushless motor which can easily apply an appropriate pre-load to a ball bearing and has a long service life.

SOLUTION: A brushless motor 50 is constituted by arranging a coil 35 on a stator 34 side and a permanent magnet 42 on a rotor 41 side. In the motor 50, a bearing 39 which rotatably supports a rotor 41 and an attracting member 33 which is positioned below the stator 34 and composed of a magnetic material are provided, so that the attracting member 33 attracts the permanent magnet 42 on the rotor 41 side and the attracting force may apply a pre-load to the bearing 39.

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